2003
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report
154

Town of Christiansburg

Prepared By

Virginia Department of Transportation
Mobility Management Division

In Cooperation With

U.S. Department of Transportation
Federal Highway Administration

Virginia Department of Transportation
Mobility Management Division
Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled "Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes" includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled "Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99".

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people at VDOT Mobility Management's Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

Publication Notes

Parallel Roads

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a "Combined Traffic Estimates for Parallel Roadways on this Route" or "Combined Traffic" identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate "NA" for not available.

VDOT's traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating "NA" for not available. It is the intention of the VDOT's Mobility Management Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate "NA" for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

Glossary of Terms:

Route: The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

Length: Length of the traffic segment in miles.

AADT: Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

4Tire: Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

Bus: Percentage of the traffic volume made up of busses.

2Axle Truck: Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

3+Axle Truck: Percentage of the traffic volume made up of single unit trucks with three or more axles.

1Trail Truck: Percentage of the traffic volume made up of units with a single trailer.

2Trail Truck: Percentage of the traffic volume made up of units with more than one trailer.

QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

K Factor: The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

QK: Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During at least 250 days of Continuous Traffic Data
- B Factor based on other Hour Observed During Less than 250 days of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of design hour
- N Peak Hour Factor of Similar Neighboring Traffic Link
- O Provided by External Source

Dir Factor: The estimate of the portion of the traffic volume traveling in the peak direction during the peak hour..

AAWDT: Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.

QW: Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source

Year: Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

Route Shield Legend

Route Systems

Interstate Route

Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.

US Route

Virginia State Route

Secondary Route

Special Routes

Bus - Business Route
Bypas - Bypass Route
Truck - Truck Route

ALT - Alternate Route
Wve - Wve Route connector

P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.

The VDOT Maintainenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

Virginia Department of Transportation
Mobility Management Division
2003
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Christiansburg

Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Christiansburg																
8	0.22	**14000**	**G**	95%	0%	3%	1%	1%	0%	F	0.091	F	0.591	15000	G	2003
From: SCL Christiansburg Near I-81																
To: Old SCL Christiansburg																
8 W Main St	0.77	**13000**	**G**	95%	0%	3%	1%	1%	0%	C	0.092	F	0.592	14000	G	2003
From: Old SCL Christiansburg																
To: Radford St																
11 Radford St	1.40	**11000**	**G**	97%	0%	2%	0%	1%	0%	C	0.096	F	0.507	12000	G	2003
From: WCL Christiansburg																
To: SR 8 W Main St																
11 W Main St	0.30	**9600**	**G**	97%	0%	2%	0%	1%	0%	F	0.089	F	0.56	10000	G	2003
From: SR 8, Radford St																
To: Bus US 460 S Franklin St																
11 E Main St	0.12	**8300**	**G**	97%	0%	2%	0%	1%	0%	F	0.087	F	0.514	8800	G	2003
From: E Main St																
To: Roanoke St																
11 Roanoke St	0.11	**13000**	**G**	97%	0%	2%	0%	1%	0%	F	0.087	F	0.529	13000	G	2003
From: Craig St																
To: SR 111 Depot St																
11 Roanoke St	0.98	**12000**	**G**	97%	0%	2%	0%	1%	0%	F	0.091	F	0.535	13000	G	2003
From: US 460																
To: .20 Mile North I-81 at Ramp																
11 Roanoke St	0.91	**17000**	**G**	95%	0%	2%	1%	1%	0%	C	0.064	F	0.549	16000	G	2003
From: Tower Rd, Hampton Rd																
To: ECL Christiansburg																
11 Roanoke St	2.01	**8500**	**G**	93%	0%	2%	1%	3%	0%	C	0.083	F	0.567	18000	G	2003
From: SCL Christiansburg																
To: US 460																
North 81	3.90	**22000**	**G**	93%	0%	2%	1%	3%	0%	N	0.091	N	0.507	9000	N	2003
From: US 11 US 460																
To: NCL Christiansburg																
Combined Traffic:		**45000**	**G**	72%	1%	1%	1%	24%	2%	F	0.068	F	0.525	44000	G	
North 81	0.77	**25000**	**G**	72%	1%	1%	1%	24%	2%	F	0.064	F		25000	G	2003
Combined Traffic:		**49000**	**G**	72%	1%	1%	1%	24%	2%	F	0.063	F	0.520	48000	G	
South 81	4.27	**23000**	**G**	73%	1%	1%	1%	23%	2%	F	0.070	F		22000	G	2003
From: SCL Christiansburg																
To: US 11 US 460																
Combined Traffic:		**45000**	**G**	72%	1%	1%	1%	24%	2%	F	NA			44000	G	
South 81	0.34	**24000**	**G**	73%	1%	1%	1%	23%	2%	F	0.067	F		23000	G	2003
From: US 11 US 460																
To: NCL Christiansburg																
Combined Traffic:		**49000**	**G**	72%	1%	1%	1%	24%	2%	F	0.063	F	0.520	48000	G	
111 Cambria Street	0.79	**5800**	**G**	95%	0%	2%	1%	1%	0%	C	0.09	F	0.524	6100	G	2003
From: US 460																
To: Ellett Rd																
111 Cambria Street	0.39	**6700**	**G**	96%	1%	3%	0%	1%	0%	C	0.095	F	0.513	7100	G	2003
From: Depot St																
To: Cambria St																
111 Depot Street	0.97	**4300**	**G**	96%	0%	2%	1%	1%	0%	F	0.093	F	0.501	4600	G	2003
From: Park St																
To: US 11																
111 Depot Street	0.11	**5900**	**G**	96%	0%	2%	1%	1%	0%	C	0.096	F	0.518	6300	G	2003
From: WCL Christiansburg																
To: Bus US 460																
114 Peppers Ferry Road	1.44	**13000**	**G**	96%	0%	2%	1%	1%	0%	F	0.084	F	0.514	14000	G	2003

Virginia Department of Transportation
Mobility Management Division
2003
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Christiansburg

Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Christiansburg																
114 Peppers Ferry Road	0.63	**NA**		From: Bus US 460							NA			NA		
				To: US 460												
460 11 Roanoke St	0.91	**17000**	**G**	From: US 11, BUS US 460						C	0.083	F	0.567	18000	G	2003
				93%	0%	2%	1%	3%	0%							
				To: 0.20 Mile North I-81 at Ramp												
460 11 Roanoke St	0.29	**8500**	**N**	From:						N	0.091	N	0.507	9000	N	2003
				93%	0%	2%	1%	3%	0%							
				To: Tower Rd, Hampton Rd												
460 11 Roanoke St	2.01	**8500**	**G**	From:						F	0.091	F	0.507	9000	G	2003
				93%	0%	2%	1%	3%	0%							
				To: ECL Christiansburg												
Bus 460 N Franklin St	0.97	**40000**	**N**	From: NCL Christiansburg						N	0.08	N	0.583	42000	N	2003
				89%	0%	1%	1%	7%	1%							
				To: SR 114 Peppers Ferry Rd												
Bus 460 11 E Main St	0.12	**8300**	**G**	From: US 11 Main St						F	0.087	F	0.514	8800	G	2003
				97%	0%	2%	0%	1%	0%							
				To: Roanoke St												
Bus 460	0.66	**53000**	**G**	From: SR 114 Peppers Ferry Rd						C	0.082	F	0.55	55000	G	2003
				95%	0%	1%	1%	2%	0%							
				To: US 460												
Bus 460 11 Roanoke St	0.11	**13000**	**G**	From: E Main St						F	0.087	F	0.529	13000	G	2003
				97%	0%	2%	0%	1%	0%							
				To: Craig St												
Bus 460 11 Roanoke St	0.98	**12000**	**G**	From:						F	0.091	F	0.535	13000	G	2003
				97%	0%	2%	0%	1%	0%							
				To: SR 111 Depot St												
Bus 460	0.18	**16000**	**G**	From: US 460						F	NA			16000	G	2003
				96%	0%	2%	1%	1%	0%							
				To: WCL Christiansburg												
Bus 460 N Franklin St	0.11	**32000**	**G**	From:						F	0.089	F	0.592	34000	G	2003
				96%	0%	2%	1%	1%	0%							
				To: SR 111 Cambria St												
Bus 460 N Franklin St	1.38	**27000**	**G**	From:						C	0.082	F	0.534	29000	G	2003
				96%	0%	2%	1%	1%	0%							
				To: Depot St												
Bus 460 11 Roanoke St	0.90	**15000**	**G**	From: SR 111 Depot St						C	0.064	F	0.549	16000	G	2003
				95%	0%	2%	1%	1%	0%							
				To: US 460												
Bus 460 N Franklin St	0.28	**12000**	**G**	From: Depot St						F	0.083	F	0.518	12000	G	2003
				96%	0%	2%	1%	1%	0%							
				To: US 11 Main St												
1 Falling Branch Rd	0.46	**NA**		From: 60-640 JB-154 SCL Christiansburg							NA			NA		
				To: US 11 Roanoke St												
3500	0.14	**NA**		From: 60-666 JB-154 WCL Christiansburg							NA			NA		
				To: SR 8 W Main Street												
3501 S Franklin St	1.21	**4500**	**G**	From: ECL Christiansburg						C	0.103	F	0.735	4800	G	2003
				97%	0%	2%	1%	1%	0%							
				To: Alleghany St												
3501 S Franklin St	0.57	**6000**	**G**	From: Allleghany St						F	0.102	F	0.69	6300	G	2003
				97%	0%	2%	1%	1%	0%							
				To: US 460 Main St												
3502 Phlegar St	0.08	**6100**	**G**	From: US 11 Main St						C	0.09	F	0.532	6500	G	2003
				97%	0%	2%	1%	0%	0%							
				To: First St												
3502 First St	0.40	**6000**	**G**	From: Phlegar St						C	0.096	F	0.518	6400	G	2003
				96%	0%	2%	0%	1%	0%							
				To: US 460 Roanoke St												
3503 Depot St	0.12	**9300**	**G**	From: SR 8 App. Loc.						F	0.091	F	0.663	9900	G	2003
				97%	0%	2%	1%	1%	0%							
				To: College St												

Virginia Department of Transportation
Mobility Management Division
2003
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Christiansburg

Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Christiansburg																
(3503) Depot St	0.14	**NA**		From: College St							NA			NA		
				To: US 11												
(3503) Depot St	0.41	**NA**		From:							NA			NA		
				To: C7US 460												
(3503) Depot St	0.91	**NA**		From:							NA			NA		
				To: SR 111												
(3504) Park St	0.87	**1700**	**G**	From: E Main St												
				96%	0%	2%	0%	1%	0%	C	0.103	F	0.571	1800	G	2003
				To: SR 111												
(3505) E Main St	0.17	**2200**	**G**	From: Roanoke St												
				96%	0%	2%	0%	1%	0%	F	0.118	F	0.782	2300	G	2003
				To: Park St												
(3506) Ellett Rd	0.39	**2600**	**G**	From: SR 111												
				96%	1%	2%	1%	1%	0%	C	0.117	F	0.568	2800	G	2003
				To: NCL Christiansburg												
Alleghany St		**2300**	**G**	From: Canaan Rd							0.096	F		2500	G	2003
				To: Miller St												
Church St		**580**	**G**	From: Plum St							0.078	F		610	G	2003
				To: King St												
Clearview Drive		**2600**	**G**	From: Regan Drive							0.096	F	0.606	2600	G	2003
				To: Wimmer Street												
Electric Way		**510**	**G**	From: Fisher St							0.094	F		540	G	2003
				To: Simmons Rd												
North Drive		**250**	**G**	From: Depot Street							0.105	F	0.593	250	G	2003
				To: E. Main Street												
Republic Road		**590**	**G**	From: Lester Street							0.11	F	0.602	590	G	2003
				To: Park Street												
Ridge Rd		**110**	**G**	From: Overhill Rd							0.101	F		120	G	2003
				To: Dogwood Terrace												
Summitridge Road		**770**	**G**	From: Briarwood Drive							0.102	F	0.588	770	G	2003
				To: S. Franklin Street												